

Office of Educator Quality

Teacher Shortage Report for Missouri

February 2024

METHOD

The Missouri Department of Elementary and Secondary Education uses appropriate certification of teachers to identify the designated areas of critical shortage.

- Shortage areas were defined as those content areas within the state for which positions were filled with inappropriately certified teacher(s) or left vacant due to the absence of certificated candidates.
- Inappropriately certified teachers and total FTE count for each content area were compiled.
- Inappropriately certified teachers by content area were determined by comparing the number of inappropriately certified FTE to the total FTE count for each content area.
- The percentage FTE shortage by content area was determined by calculating the percentage of inappropriately certified teachers per content area as compared to the total number of teachers in the state.
- A weighted value to represent the relative prominence of each content area was calculated as a percentage of the total FTE by content area as compared to the total number of teachers in the state.
- A weighted percentage of FTE shortage by content area was determined by multiplying the raw percentage FTE shortage by the weight of each content area.
- Consistent with the U.S. Department of Education Teacher Shortage Areas External User Guide, the sum of shortage areas was determined not to exceed 5% of the total number of FTE teaching positions within the state.

DATA SOURCES

- School districts in Missouri through the Missouri Student Information System (MOSIS), including educator core data, educator school, educator vacancy, and course assignment collections.
- Department of Elementary and Secondary Education's Educator Certification System.

DATA

- Inappropriately certified teacher FTE by content area (statewide) defined as a teacher not certified for the area in which they are teaching or left vacant.

ASSURANCES

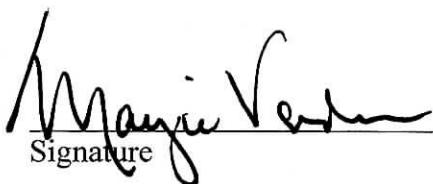
- Written objective standards were used in determining the proposed teacher shortage areas.
- 2022-23 data was used to determine the proposed teacher shortage areas.
- Chief State School Officer will provide a public posting of the annual list of designated teacher shortage areas in Missouri.

CONTACT

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CHIEF STATE SCHOOL OFFICER

Dr. Margie Vandeven
Commissioner of Education
Missouri Department of Elementary and Secondary Education



Signature

2-7-24

Date

I. Name of State:
a. Missouri

II. Applicable School Year:
a. Designations are for 2024-25; data used were from the 2022-23 academic year.

III. Date Prepared:
a. November 14, 2023
b. February 6, 2024(Revised)

IV. Total of all the FTE teaching positions within the state from 2022-23 academic year: 72,082

a. The number of inappropriately certified or vacant FTE by critical shortage content areas throughout the state that represents 4.61% of the total FTE is 3,325.05.

b. The number of inappropriately certified or vacant FTE by high need shortage content areas throughout the state that represents 0.89% of the total FTE is 385.79.

V. Shortage areas are listed by content area in order from most severe to least, as determined by MOSIS data:

Critical areas within five percent of total FTE

1. Elementary Education 1-6
2. Early Childhood Special Education B-3
3. Early Childhood Education B-3
4. Severe Development Disabled B-12
5. Mild/Moderate Cross Categorical K-12

High Needs areas

6. Mathematics 5-9
7. General Science 5-9
8. Physics 9-12
9. Mathematics 9-12
10. Biology 9-12
11. Earth Science 9-12
12. Chemistry 9-12

VI. Shortage areas are listed by content for the state in order from most severe to least, as determined by MOSIS data and represents 5.50% of the total FTE in the state:

Subject Area	FTE Inappropriately Certified	Shortage Indicator by Total FTE	Critical Shortage Area
Critical Shortage Areas			
ELEMENTARY EDUCATION 1-6	771.03	1.07%	YES
EARLY CHILDHOOD SPECIAL EDUCATION B-3	685.98	0.95%	YES
EARLY CHILDHOOD EDUCATION B-3	643.76	0.89%	YES
SEVERE DEVELOPMENT DISABLED B-12	612.86	0.85%	YES
MILD/MODERATE CROSS CATEGORICAL K-12	611.42	0.85%	YES
High Need Shortage Areas			
MATHEMATICS 5-9	286.23	0.40%	NO
GENERAL SCIENCE 5-9	250.60	0.35%	NO
PHYSICS 9-12	29.66	0.04%	NO
MATHEMATICS 9-12	24.42	0.03%	NO
BIOLOGY 9-12	23.28	0.03%	NO
EARTH SCIENCE 9-12	15.13	0.02%	NO
CHEMISTRY 9-12	14.47	0.02%	NO
Above content areas represent 4.61% in Critical Shortage Areas and 0.89% in High Need Shortage Areas of total FTE			

If a shortage area is marked “No” it will not be eligible for TEACH Grants unless it is a universally accepted shortage area, i.e., mathematics; science, including, but not limited to, computer science; foreign language; bilingual education; English language acquisition; reading specialist; or special education. <https://studentaid.gov/understand-aid/types/grants/teach>.

Benefits to student financial aid recipients, such as loan cancellations, are indicated in the following regulatory provisions:

- 34 CFR 682.210(b)(5)(ii), (b)(7), (q), and (s) enable a borrower who had no outstanding Federal Family Education Loan (FFEL) Program loan on July 1, 1987, but who had an outstanding FFEL Program loan on July 1, 1993, to qualify for deferment of loan repayment under the Stafford Loan Program anytime within the life of the borrower’s loan(s) for up to three years of service as a full-time teacher in a private elementary or secondary school in a teacher shortage area designated by the Department, and as certified by the chief administrative officer of the particular school in which the borrower is teaching;
- 34 CFR 674.53(c) enables Federal Perkins Loan borrowers who are full-time teachers of mathematics, science, foreign languages, bilingual education, or any other field of expertise where the State educational agency determined there is a shortage of qualified teachers to qualify for cancellation of up to 100% of the outstanding balance on the borrower’s Federal Perkins loans; and
- 34 CFR 686.12(d) enables grant recipients to fulfill their teaching obligation under the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program

(regarding the requirement to serve at least four academic years, within eight years of graduation) by teaching in a "high-need field," which includes academic disciplines/subject areas identified as teacher shortage areas at the time the grant recipient begins teaching in that field.

If you have questions concerning Stafford Loans and Supplemental Loans for Students (SLS), including the teacher shortage area deferment, please contact the Federal Student Aid Hotline at 1-800-4FED-AID.

If you have questions concerning Federal Perkins Loans, please contact the school where you received the loan.